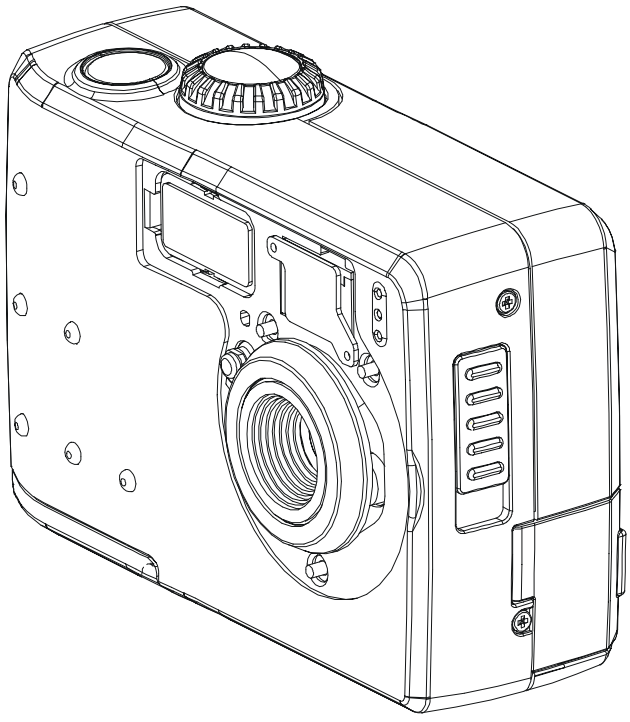
Digital Still Camera

3.2 Mega Pixel

User's Manual



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Getting Started

Contents of Package

All of the items shown below are included with your camera.

Camera

USB cable

Video cable

Strap

Soft case

User's Guide

CD-ROM

Alkaline batteries (2 AA-size batteries)

System Requirements

For Windows

- PC with processor better than MMX Pentium 233MHz
- Windows 98/98se/2000/ME/XP
- Minimum 32MB RAM
- USB Port
- CD-ROM drive
- 800x600 pixels, 16-bit color display compatible monitor

For Macintosh

- Power Mac G3 or later
- Mac OS 9.0, 9.1, 9.2
- Minimum 64MB RAM
- USB Port
- CD-ROM drive
- 800x600 pixels, 16-bit color display compatible monitor

* Specifications are subject to change without prior notice.

General Precautions

- Do not try to open the case of the camera or attempt to modify this camera in any way. High-voltage internal components create the risk of electric shock when exposed. The maintenance and repairs should be carried out by authorized service providers.
- Do not fire the flash when it is too close to people or animal's eyes. It may cause eye damage especially for children.
- Do not use this camera with wet hand. Keep the camera away from water and other liquids. Moisture creates the danger of fire and electric shock. Never use this camera in the rain or snow.
- For safety reasons, please keep this camera and accessories out of reach of children or animals to prevent accidents.
- If you notice smoke or a strange odor coming out of the camera, immediately turn power off and unplug the AC adaptor from the power outlet. Take it to your nearest service center for repair. Never attempt your own maintenance.

FCC Compliance and Advisory

This device complies with Part 15 of the FF Rules. Operation is subject to the following two conditions: 1.) this device may not cause harmful interference, and 2.) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B peripheral, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause a harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

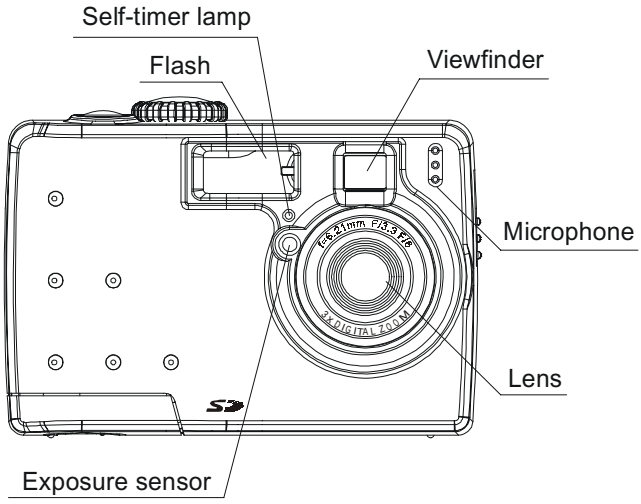
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet ton a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables

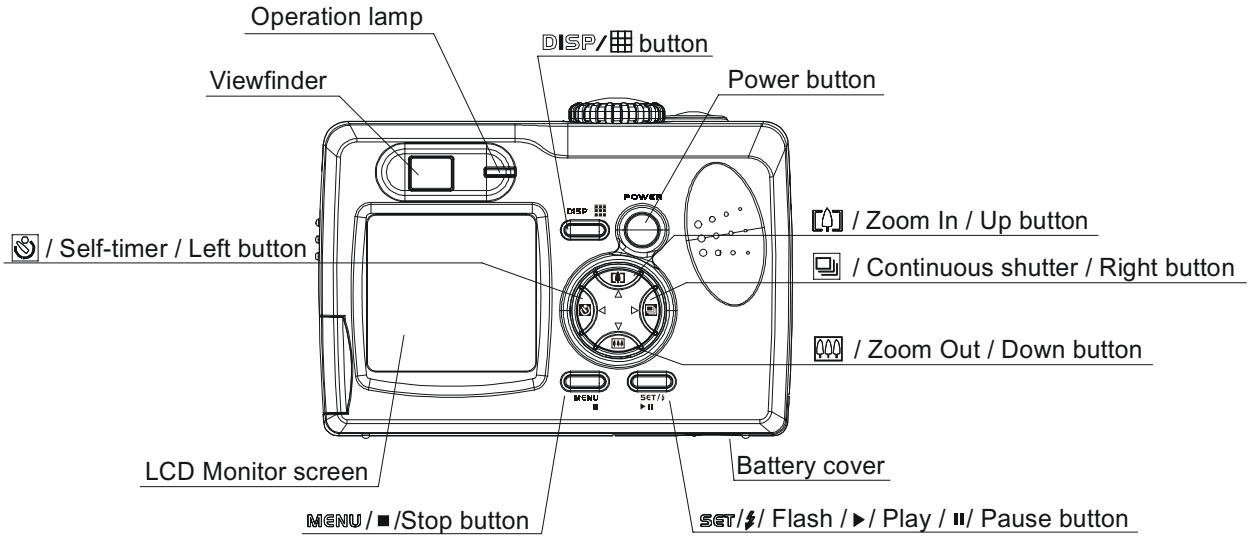
have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation.

Camera Nomenclature

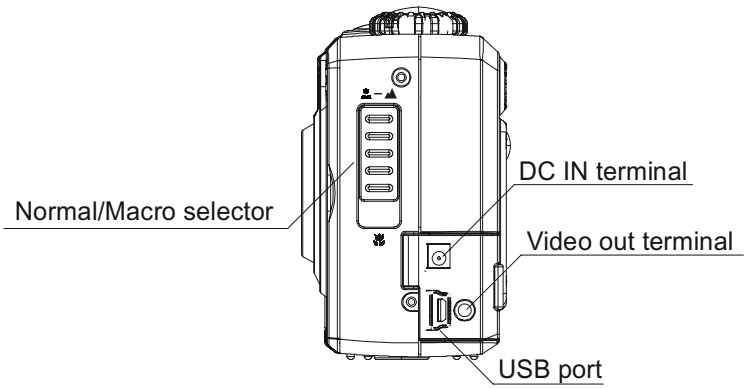
Front



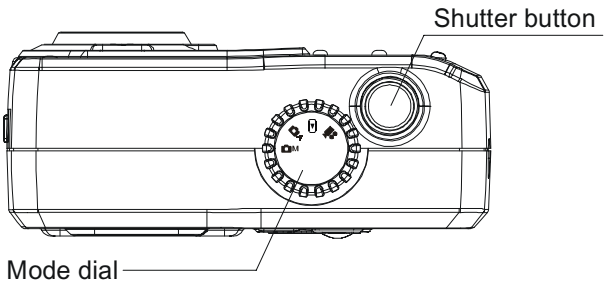
Back



Side



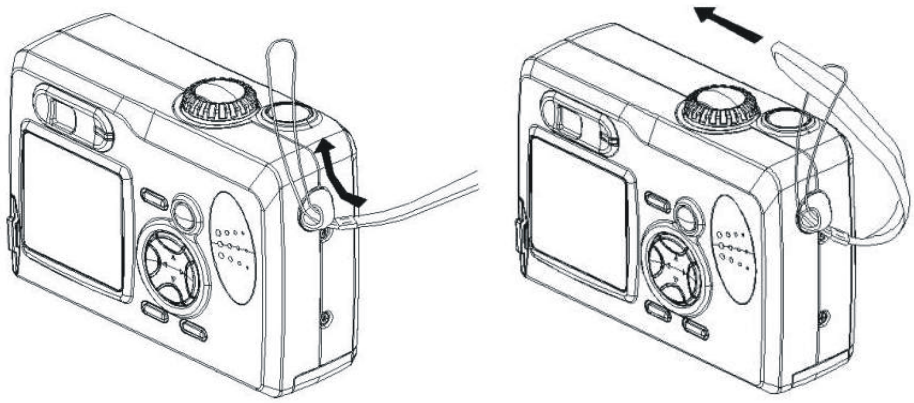
Top



Accessory Set-up

Attaching the Wrist Strap

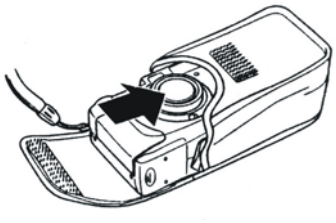
· Follow illustrations to add the wrist strap.



Note: When carrying the camera by the strap, please don't swing the camera on the strap.

Using the Soft Case

- Keep the camera in it's soft case while it is not in use.
- Be sure to insert the camera into the case, with the monitor screen facing down.



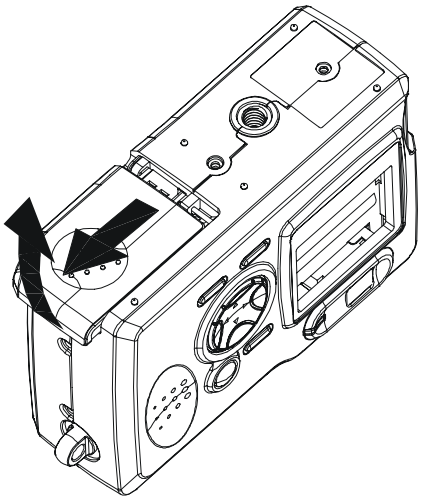
Preparing to Take Pictures

Battery Installation

There are two ways to supply power to the camera. You can use batteries (AA Alkaline or CR-V3), or alternatively, you can use an AC adapter (DC3.3V/2.5A).

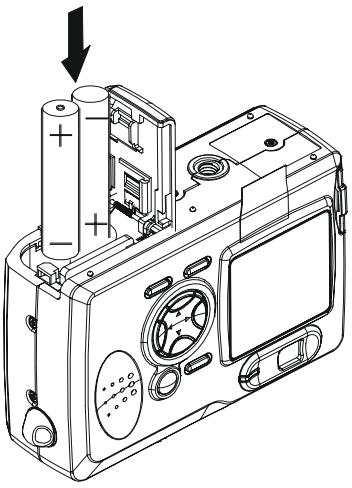
If using Batteries,

1. Turn camera upside-down.
2. Open the battery cover by pushing and sliding into the side.

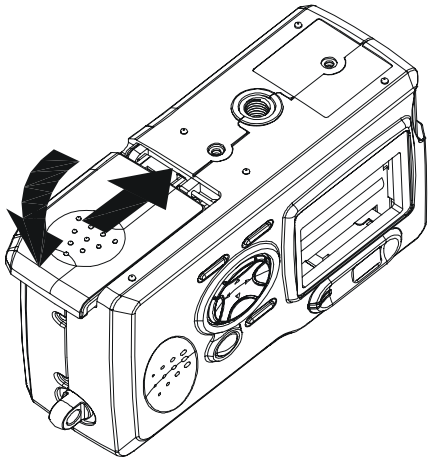


3. Check inscription on battery chamber for correct negative/ positive installation.

4. Install 2-AA alkaline batteries.



5. Close battery cover.



Low Battery Indicator

1. Please check the batteries you insert so that you will not be caught with dead batteries.
2. The following shows how the battery capacity indicator on the monitor screen and the indicator display changes as battery power is used.

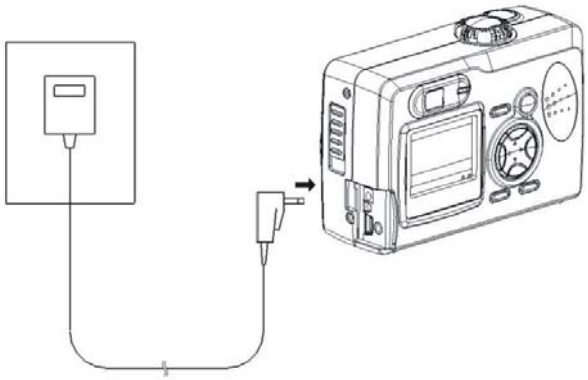
Battery Capacity	High ⟷ Low
Monitor Screen	

NOTE:

- Never use manganese batteries, as they cannot supply sufficient power to support the camera's operations.
- Replace all batteries at the same time to ensure a properly working camera, never mix old and new batteries.
- Remove batteries from the camera if you do not plan on using it for more than two weeks.
- It is normal that the temperature of the camera body rises after extended use.
- It is suggested to use an AC adaptor for extended camera use.

If using AC Adaptor,

1. Plug the adapter into the DC-In jack (DC-IN 3.3V).
   Please make sure that you use an AC adapter with the correct specification for the camera (DC3.3V/2.5A).



NOTE:

- Please be sure to turn off power before connecting or disconnecting the Adaptor.
- The camera automatically switches over to AC adaptor powered operation whenever the AC adapter is plugged into the camera.
- Recommend using the AC adaptor to power the camera whenever connected to a computer.

Turning Camera ON and OFF

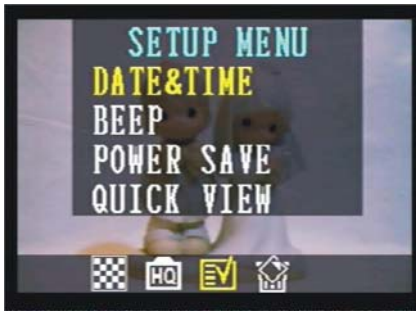
1. Select Mode dial to Auto mode (A).
2. Press the Power ON/OFF bottom to turn the camera on and off.

   NOTE:

   - It takes about 2 seconds to power on the camera.
   - When powering on the camera in Auto/Manual/Video mode, in the right down corner on the LCD screen, the date will display for one second. Then it changes to time for one second. Then the date and time indicator will be off.

Date and Time Set-Up

1. You may set the date and time in any Mode dial (A M).
2. Press MENU button.
3. Then press RIGHT button (▷) to SETUP MENU ( ).



4. Press SET button to DATE&TIME menu.

5. Press UP/DOWN (△/▽) to adjust the value of your setting.

6. Press Set button to set the value and advance to the next.

Use UP/DOWN button to change the display of date.

A. YY/MM/DD
B. MM/DD/YY
C. DD/MM/YY

Beep Sound Set-Up

You may turn on/off the operating beep sound in any mode dial.

( )

1. Press MENU button.
2. Then press RIGHT button (▷) to SETUP MENU ( ).

3. Press DOWN button (▽) to BEEP.
4. Press SET button to BEEP menu.
5. Press UP/DOWN (△/▽) button to set the beep sound.

6. Press SET button again to complete your setting.

Note: The default setting is “On”.

Power Save Settings

You may perform power save setting in any Mode dial.

(A M)

1. Press Menu button.
2. Then press RIGHT button to SETUP MENU ( ).

3. Press DOWN button ( ) to POWER SAVE.
4. Press SET button to POWER SAVE menu.
5. Press UP/DOWN button for your new setting.

6. After your selection, press SET again to complete your setting.

Note: The default setting is “1 minute”.

1 minute: This camera will automatically turn off monitor screen if there is no operation after one minute (the LED is on in Green.) Performing any button will have the monitor screen to turn back on.

Note:
After the above 1 minute power saving, if there is no more operation in another 1 minute, this camera will automatically power off. You have to push the POWER bottom in order to turn on the camera again.

3 minutes: This camera will automatically turn off monitor screen if there is no operation after three minutes (the LED is on in Green.) Performing any button will have the monitor screen to turn back on.

Note:
After the above 3 minute power saving, if there is no more operation in another 1 minute, this camera will automatically power off. You have to push the Power bottom in order to turn on the camera again.

Off: This camera will not perform the power saving function.

Quick View Setting

You can view the picture immediately on the LCD screen right after it is taken. You can perform Quick View Setting in any Mode dial.

( )

1. Press MENU button.
2. Then press RIGHT button (▷) to SETUP MENU.

3. Press DOWN button (▽) to QUICK VIEW.

4. Press SET button to enter the QUICK VIEW selection.

5. Use UP/DOWN button (△/▽) to set ON/OFF of quick view function.
6. Press SET again to complete your setting.

Language Set-Up

Use this feature to select the language for the LCD monitor screen.
You may perform the language setting in any Mode dial.

(A M)

1. Press MENU button.
2. Then press RIGHT button (▷) to SETUP MENU.

3. Press DOWN button (▽) to LANGUAGE.

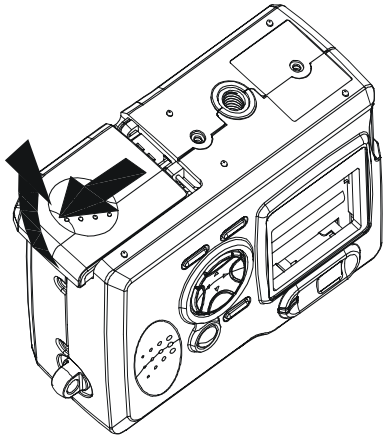
4. Press SET button to enter the LANGUAGE selection.

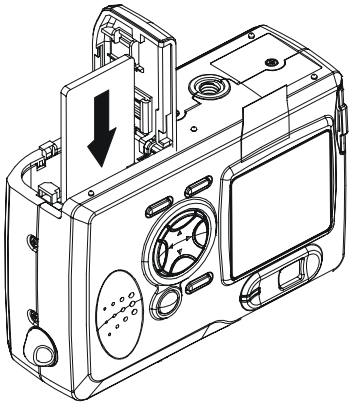
5. Use UP/DOWN button (△/▽) to set the language you need.
6. Press SET again to complete your setting.

Using a Memory Card

Inserting a SD memory card

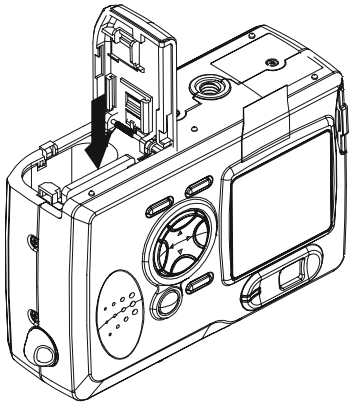
1. Push forward the battery cover following the arrow direction on the cover (please refer to page 6).
2. You will see the card slot next to the battery house.
3. Insert the SD card into the slot in the direction shown illustration.

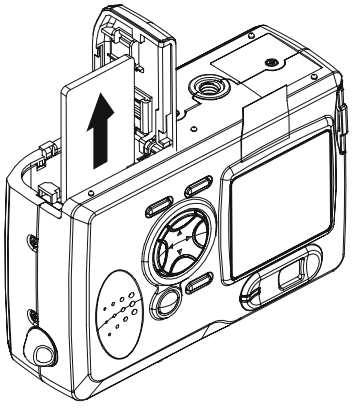




Removing a SD memory card

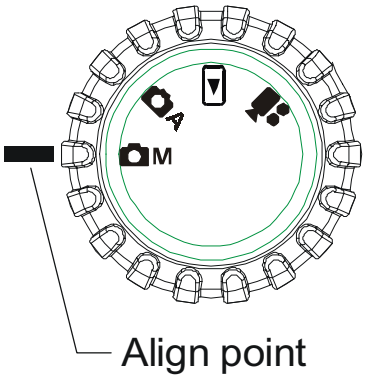
1. Press the memory card into the camera and then quickly release it. That will make the card to come partially out of the camera.
2. Pull the memory card out of the slot.
3. Close the battery/card cover (please refer to page 7).





Camera Working Mode

You can select the camera's working mode by using the Mode dial located on the top of the camera. There are 4 working modes in this camera.



Auto Photo Mode (A)

In this mode, the camera will automatically set the exposure and white balance according to your shooting environment.

Manual Photo Mode (M)

You can manually set the exposure and white balance before shooting.

Playback Mode ( )

Replay or delete images from the camera memory storage.
Print images directly to a connected printer.

Video Mode ( )

Use this mode to record movies.
You can also manually set the exposure and white balance before recording the video.

Taking Pictures

Previewing a Picture before it is taken

You can preview the image on the LCD screen before you take it.

1. Set the Mode dial to Auto (A) or Manual (M).
2. Press POWER button (POWER) to power on the camera.
3. The live image will automatically show out on the LCD screen with information display.

Turn off the previewing LCD screen

The LCD screen always comes on when you turn the camera power on at any Mode dial. You can turn on/off the previewing LCD screen by pressing DISP button (DISP / ▦).

1. Press the DSIP button (DISP / ▦) one time to turn off the information display.

2. Press the DSIP button (DISP / ▦) twice to turn off the LCD screen.

(Auto mode)

(Turn off the information)

(Turn off the LCD)

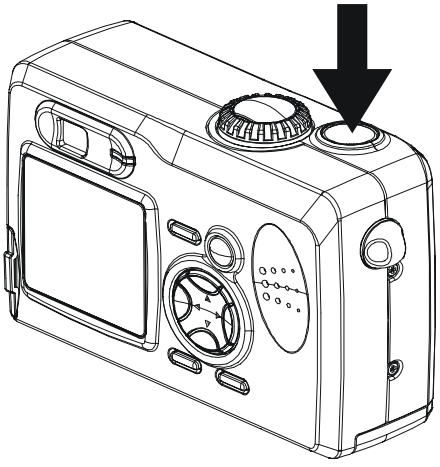
Taking a picture

There are two Camera Working Modes for you to take a picture. In the Auto Mode, all you have to do is to press the shutter button and let the camera judges the environment conditions for you. In the Manual Mode, you can manually adjust the exposure and set the white balance based on different environment condition.

If you don't insert the SD card into the camera, you can take the pictures and storage them into the on board memory. If you insert the SD card into the camera, you can access the SD card only. You can 't access the SD card and the on board memory at the same time.

Auto Mode Screen

1. Select the Mode dial to Auto (A).
2. Press the POWER button (POWER) to power on the camera.
3. Press Shutter button completely down to take a picture.



Manual Mode Screen

1. Select the Mode dial to Manual(M).
2. Press the POWER button (POWER) to power on the camera.
3. Press Shutter button completely down to take a picture.

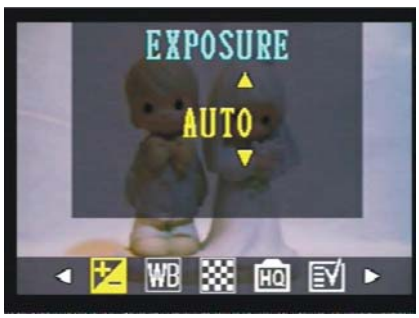
NOTE:

- While capturing a picture, you can press the Shutter button half-way down to check the if there is proper exposure value subject to your current light condition for capturing.
- If the display indicators on the LCD screen turn into green color, it means the camera has automatically completed the setting of exposure and white balance for you.
- If the display indicators on LCD screen turn into red color which means the camera's auto exposure and auto white balance function is not ready or your capturing condition is over the camera's setting.
- Under the above condition, if you still press completely down the capture button, the picture you took is in risk of over exposure or too dark.

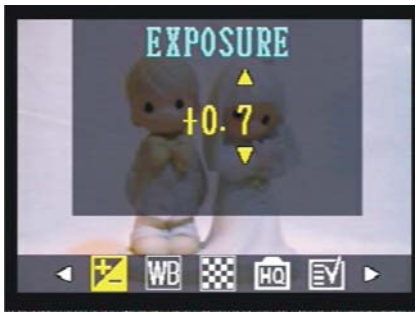
Adjusting the Exposure

You can manually set the exposure value (EV value) to compensate for lighting conditions. This setting is used to obtain better results when shooting backlighting, indirect indoors lighting or a dark background.

1. Set the Mode dial to Manual (M).
2. Press MENU button.



3. Use UP/DOWN button (△/▽) to set the exposure value.



4. Press SET button to complete the exposure setting.

- EV Value Range: -2EV to +2EV
- Steps: 1/3V

NOTE:

- Exposure compensation returns to its standard default setting (AUTO) every time you turn on the camera.

Setting the White Balance

You can set the white balance mode to match different type of light source.

1. Set the Mode dial to Manual (M).
2. Press MENU and select to WHITE BALANCE (**WB**).
3. Use UP/DOWN button to set the white balance mode.
4. Press SET button to complete your setting.

If the LCD screen is on, you can check the result by viewing the image on the LCD screen.

- **AUTO** - Normal conditions (camera adjusts white balance automatically)
- - Outdoor daylight
- - Cloudy
- - TUNGSTEN (Indoors, illuminated by tungsten lighting)

· - FLUORESCENT (Indoors, illuminated by fluorescent lighting)

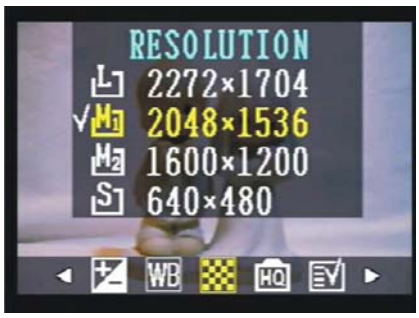
· - converts images to black and white

Changing the Picture Resolution and Quality (Compression)

You can change the resolution and quality setting of images you will record.

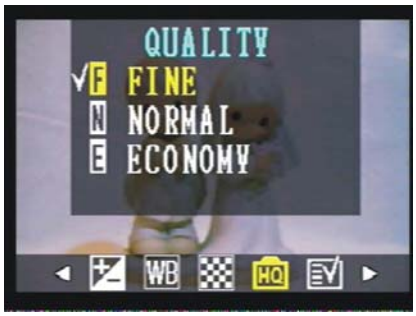
Resolution Setting:

1. Select the Mode dial to Auto or Manual.
3. Press MENU button.
4. Press RIGHT button and select to RESOLUTION ( ).
5. Use UP/DOWN button to set the resolution.
6. Press SET button to complete your setting.



Quality Setting:

1. Select the Mode dial to Auto or Manual.
2. Press MENU button.
3. Press RIGHT button and select to QUALITY ( ).
4. Use UP/DOWN button to set the quality of image compression.



After setting the resolution and quality, the following information icons will appear on the LCD screen.

Display / Icon	Resolution
L	2272 x 1704 (Large)
M1	2048 x 1536 (Medium-1)
M2	1600 x 1200 (Medium-2)
S	640 x 480 (Small)

Display / Icon	Quality
F	5X
N	8X
E	12X

Setting the Flash

Press the button to select the flash mode.

A	Auto	The flash fires automatically when needed. The camera determines when there is not enough light.
	Red-Eye Reduction	A pre-flash will fire automatically when needed before the picture is taken. And the Red-Eye Reduction lamp fires again when picture is taken.
	Off	The flash will not fire.
	Fill	The flash fires every time when you take a picture.

Mode	Auto	Manual	Video
	○	○	X
	○	○	X
	○	○	X
	○	○	X

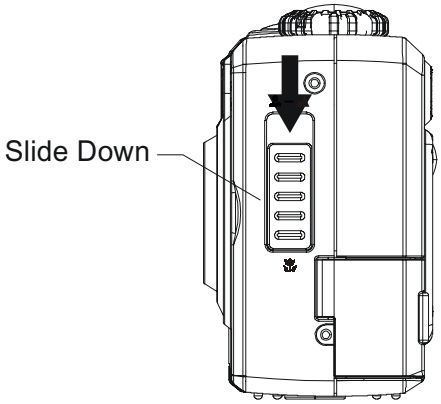
○ : Available

X : Not Available

Using Normal/Macro (focus) Selector

Slide the Normal/Macro Selector up and down to select proper focus range for recording images.

Recording images that are close-up at a distance of approximately 7 1/2” (20cm).



1. Slide the Normal/Macro Selector down to Macro ( ).
2. Make sure the Macro indicator appears on the LCD screen.

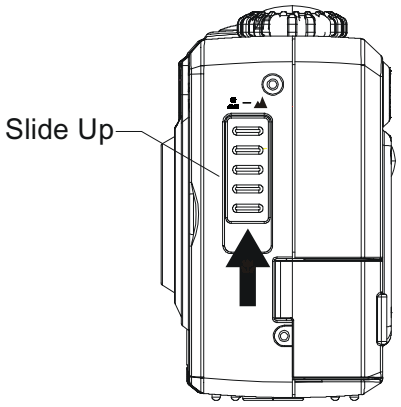
(Auto mode)

NOTE:

- The distances mentioned above represent the distances from the camera's lens surface to the subject.
- The flash is set to "Flash Off" each time when the Macro feature is activated.
- Users can change the flash setting to "Flash Fill" by pressing Flash button. But the Flash Auto and Red-Eye Reduction setting can not be set in Macro Mode.
- Recording images that are in normal or infinity distance of approximately from 31.5" to infinite.(80cm - infinity).

Recording images that are in normal or infinity distance of approximately from 31.5" to infinite (80cm - infinit7).

1. Slide the Normal/Macro Selector to Normal ( ).
2. When the focus is set to normal or infinite distance, there in no specified focus indicator appears on LCD screen.



Using Digital Zoom

When the LCD screen is on in Auto or Manual Mode, you can zoom in the subject before the image is taken.

1. Set Mode dial to Auto (A) or Manual (M).
2. Turn on the LCD screen and the Information display in on (if not, press DISP button).
2. Press UP button (△) to zoom in the subject.
3. Press Down button (▽) to zoom out the subject.

(Auto mode)

Zoom x1.0

(Auto mode)

Zoom In x1.8

Continuous Shutter Mode

The camera will record images continuously at the speed of approximate of 3 images in 2 seconds.

1. Set Mode dial to Auto (A) or Manual (M).
2. Press the Continuous Mode button( ) .
3. Be sure that the ( ) appears on the LCD monitor, then press shutter button.

To cancel the Continuous Mode function

Press the Continuous Mode button ( ) again.

Setting Self-Timer

When you use the self-timer function, the subject is recorded about 2 or 10 seconds upon your setting after you press the shutter button.

1. Set Mode dial to Auto (A) or Manual (M).
2. Press the Self-Timer button ( ).

Self-Timer Options:

OFF - Turns self-timer off.

- 2 SEC.(Press Self-Timer one time)

  Indicates a countdown of two seconds.

- 10 SEC.

  Indicates a countdown of ten seconds.

3. Be sure that the (2 sec.) or (10 sec.) appear on the LCD monitor, then press Shutter button.
4. The Self-Timer lamp will flash in red when you press shutter button for countdown.

To cancel the self-timer function

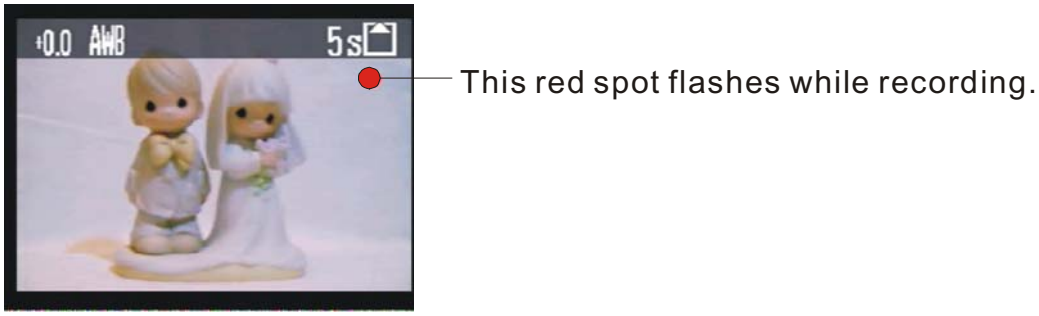
Press the self-timer ( ) again.

Recording Video images

This camera performs video-recording function.

1.Set the Mode dial to Video ( ).

2. Press the shutter button to start video recording.



3. Press the shutter button again to stop the recording.

Adjusting the exposure and white balance before recording

Please refer to page 20.

NOTE:

- In Video mode, the resolution is set to 320x240 pixels.
- There is no zoom in and zoom out functions in Video Recording Mode.
- Be careful not to touch the microphone while recording.
- The maximum length of individual video recording will depend on the memory space. The recording will end automatically when the storage memory becomes full.

Functions Available in Each Shooting Mode

Function	Mode	Auto A	Manual M	Video
EXPOSURE	Exposure Compensation Valve: -2.0 ~ +2.0	X	○	○
WHITE BALANCE WB	AUTO	X	○	○
	DAYLIGHT	X	○	○
	SHADE	X	○	○
	TUNGSTEN	X	○	○
	FLUORESCENT	X	○	○
	BLACK&WHITE	X	○	○
RESOLUTION	2272x1704	○	○	X
	2048x1536	○	○	X
	1600x1200	○	○	X
	640x480	○	○	X
QUALITY HQ	5X	○	○	X
	8X	○	○	X
	12X	○	○	X
SET UP	DATE&TIME	○	○	○
	BEEP	○	○	○
	POWER SAVE	○	○	○
	QUICK VIEW	○	○	○
	TV OUT	○	○	○
	LANGUAGE	○	○	○
FORMAT		○	○	○
Flash	Auto	○	○	X
	Red-Eye Reduction	○	○	X
	Off	○	○	X
	Fill	○	○	X
Macro Focus		○	○	○
Normal Focus		○	○	○
Continuous Shutting		○	○	X
Self-Timer		○	○	X
Digital Zoom		○	○	X

○ : Available

X : Not Available

Reviewing Your Pictures and Videos

Viewing Pictures

You can view pictures and images in Playback mode.

1. Select the Mode dial to Playback ( ). The LCD screen displays the last recorded image.

2. Use RIGHT/LEFT button (◁/▷) to view different pictures.

Note:

When viewing the video, you can use PLAY button( ) to start the video playing, and use STOP button ( ) to stop the video playing.

While the video is playing, if you press STOP button, the video will return to the first image.

Viewing Pictures in Thumbnail

You can view up to 9 images at a time by using the THUMBNAIL function ( ).

1. Select Mode dial to Playback mode( ).
2. The LCD screen displays the last recorded image.
3. Press DISP / button, the image data will be turned off.
4. Press DISP / button again.
5. The thumbnail display will highlight the image that had been show-

ing at the time the thumbnail mode was selected.

Zooming the Displayed Image

When viewing a single image in Playback Mode, you can magnify the image you selected. The scale of magnification is x1.0 ~ x4.0.

1. Select the Mode dial to Playback mode.
2. Magnify the image up to the desired scale of magnification by using the UP button (△).

3. Press the DOWN button (▽) to zoom backs the original full sized image

If an image is magnified, the ratio indicator will display on the left down side (next to the Battery Indicator) of the LCD screen.

Slide the magnified image in four ways.

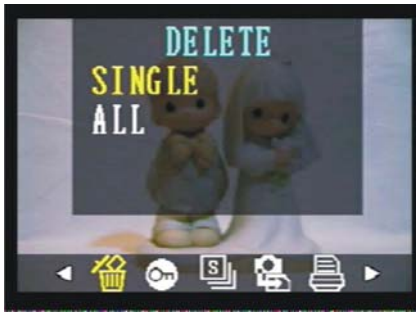
1. Press SET button and the four-way arrow directors will appear on the LCD screen.
2. Press UP/DOWN/LEFT/RIGHT buttons to slide the magnified pictures.
3. Press SET button again to return to the magnify function.

Deleting Pictures

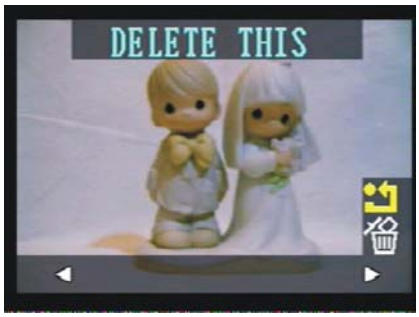
You can delete single or all images in Playback mode(▶).

Deleting a Single Image

1. Select Mode dial to Playback mode(▶).
2. Press MENU button.



3. Press SET button to selete SINGLE.

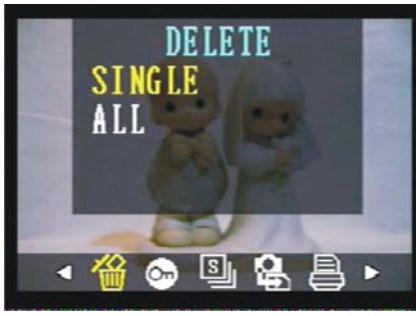


4. Use UP/DOWN button to confirm CANCEL( ) to return th the MENU option, or YES( ) to delete this picture.

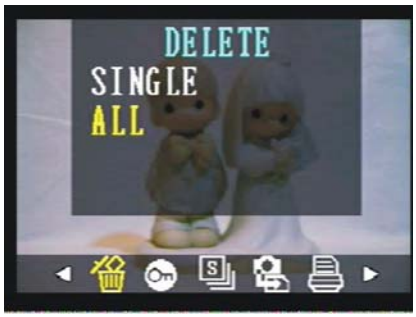
Note:
Use LEFT/RIGHT button to slide the image to the next one.

Deleting All Unprotected Images

1. Select Mode dial to Playback mode( ).
2. Press MENU button.



3. Press DOWN button to selete ALL.



4. Press SET button to confirm CANCEL or YES.

5. Press SET button to delete ALL images.

Protecting Pictures against Deletion

Protect or unprotect a single image.

1. Select Mode dial to Playback mode(▶).
2. Follow “Viewing Pictures” procedure to the pictures you want to protect.

3. Press MENU button and use RIGHT button (▷) to PROTECT function.

4. Press SET button to protect single picture.

5. Press SET button again to complete the single protection.

NOTE:

1. Be sure that the PROTECT icon ( ) appears after your setting.
2. Use LEFT/RIGHT button to slide the image to the next one.

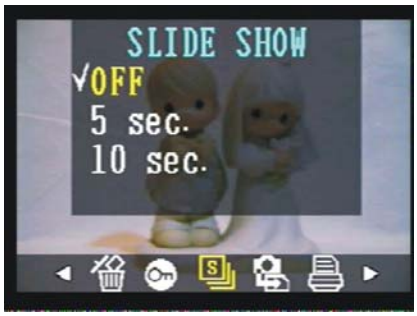
Protect or unprotect all image

Follow procedure in 'Protect or unprotect a single image' except select 'ALL' to protect or unprotect all images.

Running a Slide Show

View your pictures on the camera LCD screen by using the Slide Show feature. The pictures appear for a period of 5 sec. or 10 sec. upon the time you set.

1. Select the Mode dial to Playback mode ( ).
2. The last picture taken appears on the LCD screen.
3. Press MENU button and use RIGHT button to "SLIDE SHOW " ( ).



4. Press UP/DOWN button to set the seconds you want the pictures to appear on the LCD screen.

Three time-settings of Slide Show

OFF – The Slide Show feature default sets as OFF.
5 sec. – The pictures will appear on LCD screen for a period of 5 seconds.
10 sec. – The pictures will appear on LCD screen for a period of 5 seconds.

Press SET button to complete your setting and start to run the slide show.

Note:

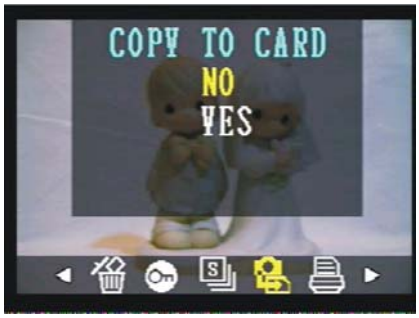
1. The slide show will automatically run from the fist picture taken after you press the SET button.
2. You may stop the slide show by pressing any key.
3. The slide show will keep running as long as there is power supply.

4. Recommend using AC power for long time slide show.
5. While the slide show is running, the operation lamp is flashing in Green light.

Copying Flash Memory Images to a Memory Card

Copy all images currently in the camera's built-in flash memory to a memory card.

1. Select Mode dial to Playback mode ( ).
2. Press MENU button
3. Press RIGHT button to select to "COPY TO CARD"( ).



4. Use UP/DOWN button to select NO or YES.

- This starts the copy operation.
- After all the images are copied to the card, the message "COPY COMPLETED" appears on the camera LCD screen.

Note:
You can not copy the images from the memory card to the camera's built-in flash memory.

Formatting Memory Card or On board memory

1. Select Mode dial to Playback mode ( ).
2. Press MENU button
3. Press RIGHT button to select to “FORMAT”( ).

4. Use UP/DOWN button to select NO or YES.

   YES - Formats the memory card.
   NO – Cancels formatting operation.

- This starts the FORMATTING operation.
- After the memory storage is formatted, the message “NO IMAGE” appears on the camera LCD screen.

Note:
The data deleted by a format operation can not be recovered. Make sure that you do not need any data currently stored on a memory card before you format it.

Setting Your Camera for Printing

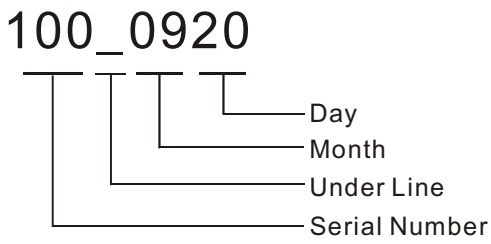
Folders and Files

Your camera automatically created a directory of folders in its on board memory or on the memory car to store images.

Folders

A folder is created automatically whenever you shoot the first image on a particular date. The name assigned to the folder is based on the current date, as described below.

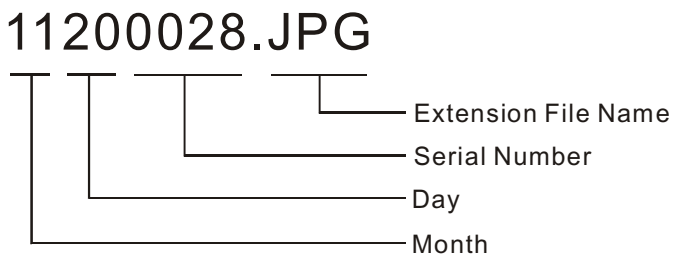
Example: Folder created on Sep. 20, which is the 100th folder on the memory card.



Files

Each folder can contain up to 9,999 image files. If you try to save the 10,000th pictures to a folder, the camera automatically creates a new folder and stores the image in the new folder. The name assigned to the files is based on the current date, as described below.

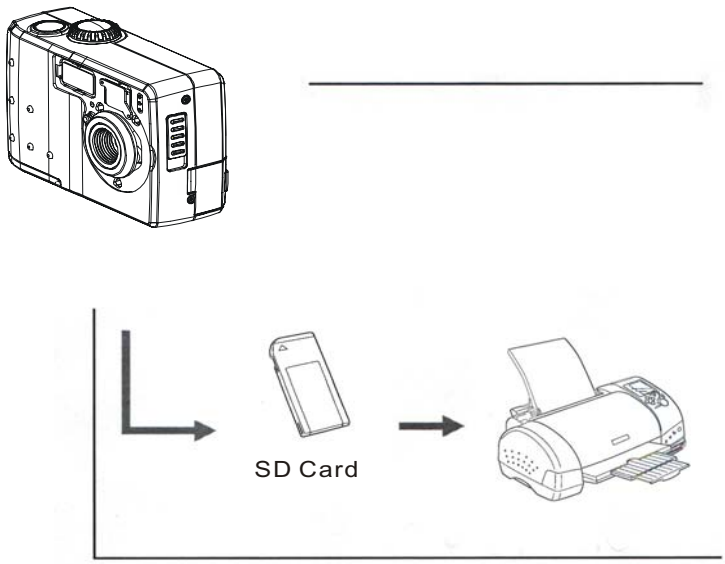
Example: 28th image taken on Nov. 20.



Note:
The actual number of files you will be able to store on a memory card depends on the capacity of the card, and image quality settings.

DPOF Print Settings

On your SD card, select with image or images you want to print and how many copies you want. This is convenient for printing on optional printers with the DPOF function or at any print service.



DPOF

The letters “DPOF” stand for “ Digital Print Order Format”, which is a format for recording on a memory card or other medium which digital camera images should be printed and how many copies of the image should be printed. Then you can print on a DPOF-compatible printer or at a professional print service from the memory card in accordance with the file name and number of copies settings recorded on the cards.

Print Order Setting

1. Select to Mode dial to PLAY mode(▶).
2. Use RIGHT/LEFT button to select the image you want to set the printing order.
3. Press Menu button.

4. Press RIGHT button to PRINT ORDER.

5. Press SET button to select “SINGLE” image.

Print All Images

Follow the above procedure except select ‘ALL’ to print all images.

6. UP/DOWN button and then press SET button to select COPIES or DATE settings.

DPOF Options:

Copies - Specify the number of copies to be printed.
Use UP/DOWN button to choose the numbers.

DATE - Insert a date stamp into the imag.
Use UP/DOWN button to choose ON/OFF.

Press RIGHT button- Scroll forward to the next image.

Press LEFT button - Scroll back to the previous image.

Resetting the Print Order Setting

The Reset feature clears all print selections and resets COPIES to “00” , and the DATE to “OFF”.

PRINT Image Matching

This camera supports PRINT Image Matching. Images recorded with it include information about the mode setting, camera setup, etc. When you print an image on a printer that supports PRINT Image Matching, the printer reads this data and adjust the printed image accordingly, so your image come out just the way you intended when you recorded them. See the documentation that came with your printer for full details about PRINT Image Matching.

*PRINT Image Matching is a term for the print command that is embedded in header file fo the image created by Digital Camera. It contains color setting and image parameter information.

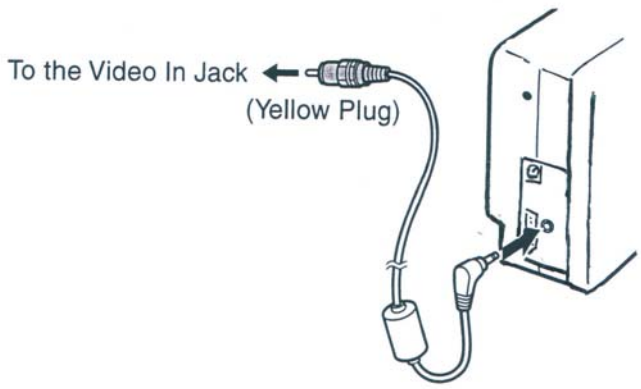
* SEIKO EPSON Corporation holds the copyright for PRINT Image Matching.

Connecting your camera

Viewing Images on a TV Set

Images displayed on the camera's monitor screen can also be displayed on a television screen.

1. Use the video cable to connect the camera to the TV set as shown.



2. Perform the required operation on the VQ to obtain video input
3. Perform normal playback and recording operations on the camera.

NOTE:
The camera LCD screen turns off automatically during video output.

Selecting the Video Output Signal Mode

Your camera supports both NTSC (used in U.S., Japan, and other countries) and PAL (used in Europe and other areas) video output signal systems. The video sysetem you should use depend on the contry of origitn of the equopment you are connecting to the camera's VIDEO OUT terminal.

Downloading Images to a Computer

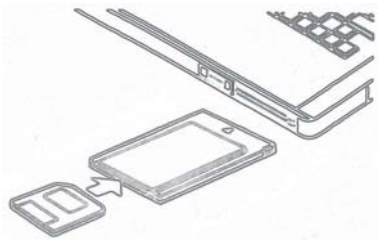
There are two ways to download images taken with the camera to a computer.

- Directly from the SD card.
- Connect the camera to a computer via the USB cable.

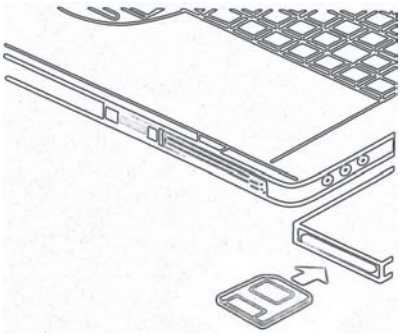
After installing the supplied software, downlaod images automatically by simply connecting the camera to a computer with the supplied USB cable.

Downloading Directly from a SD card

1. Eject the SD card from the camera, and inset it into a SD card reader which is connected to the computer.



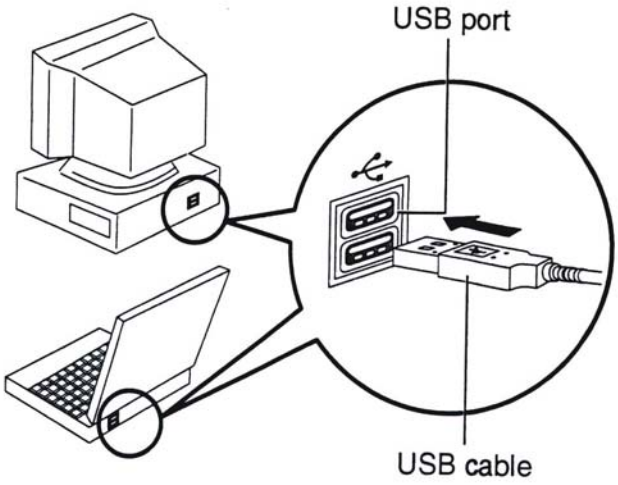
If you are using a PC card reader, first insert the SD card into a PC card adapter (optional), and then insert the PC card adapter into the computer's PC card reader.

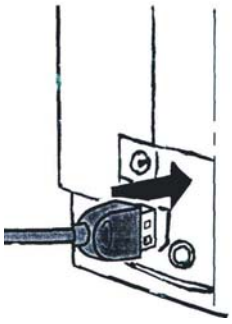


2. Double-click the icon of the drive with the SD card.
3. Copy images from the card into a folder of your choice on the hard disk.

Connecting the Camera to a Computer via USB Cable

1. Make sure that you install the USB driver that comes on the bundled CD-ROM first.
2. Connect the supplied USB cable to the computer's USB port.
   You do not need to turn off the computer or camera when making this connection.
   Please refer to your computer manual for information regarding to the USB port location.





1. Open the terminal cover with your fingernail.
2. Insert the connector until it clicks.

3. Turn on your camera.
   When the connection to the computer is complete, the LCD screen turns off.

NOTE:
When you discounnect the USB cable while the camera is on, the camera will automatically turn off.
It's recommended to power the camera from a household power outlet with the optional AC Adapter.
If you are in the first time to connect the camera to a PC in Windows98 operation system via USB cable, the computer will detect the camera as " Unknow device" and then automatically complete the camera installation.

4. A “ Removable Disk” will be displayed under “My Computer”.
5. Double-click the “ Removable Disk” and you will see a “ DCIM” folder.
6. All the images stored on camera are transferred to the “DCIM” folder.

About the memory storage you using in this camera

On-board Memory

This camera has on board memory. If you do not insert SD card into the camera, all images taken will be stored in camera on-board memory. If you insert a SD card into the camera, the images taken will be stored in the SD card.

Memory Card Data

Images recorded with this camera and other datat are stored on the memory card using DCF (Design rule for Camera File system) protocol. DCF protocol is designed for image an other data exchange between digital cameras and other devices.

DCF Protocol

DCF Protocol defines the format for image file datat and the directory structure for the memory card. If images taken by a DCF camera, those images can be viewed as well in another manufactuer’s DCF camera.

Installing the Software

Downloading Pictures

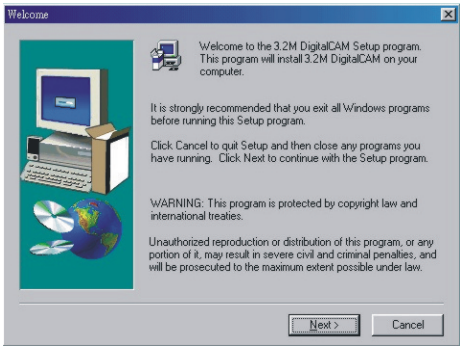
Installing Camera Drivers

If operating system is Windows 98/98SE:

Insert CD into your PC cd-rom drive.

Program should install automatically.

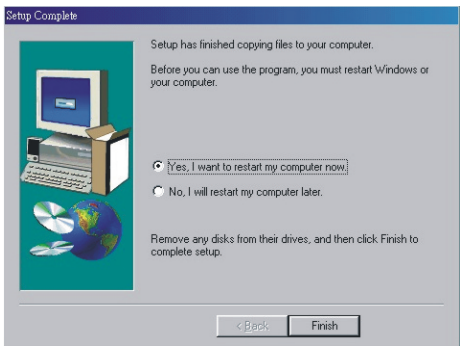
Follow on-screen instructions.



NOTE:

If your system requires a manual installation: Click Run, type “(the CD-ROM drive):/install.exe”, then click OK.

Restarting your computer is recommended.



**If you click on the “exit” on the main screen of the camera driver it take you through the install again—seems to be a glitch in the software.

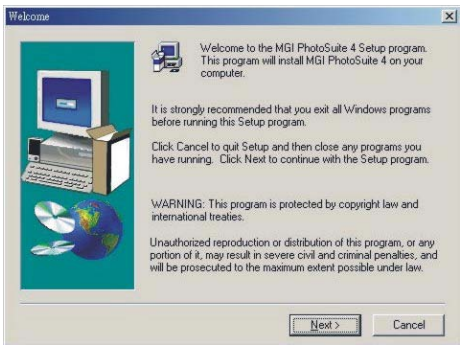
Installing MGI PhotoSuite 4 SE

If operating system is Windows 98/98SE/2000/ME/XP:

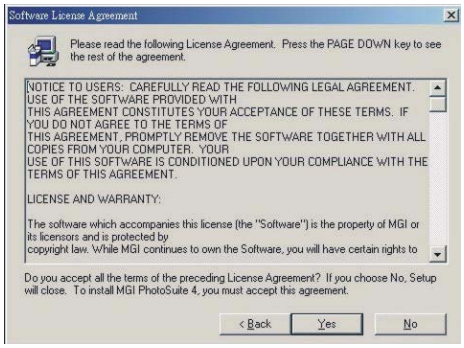
1. Insert CD into your PC cd-rom drive.
2. Program should install automatically.
3. Follow on-screen instructions.

1. Click the MGI PhotoSuite 4 SE menu on autorun frame.

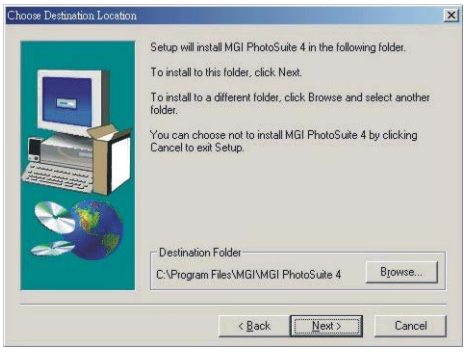
2. A Welcome window will be displayed.
   Click [Next>] to move to the next step.



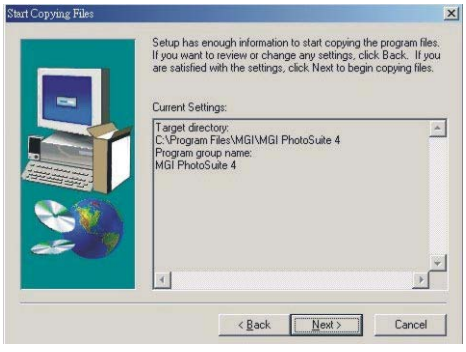
3. The Software License Agreement window will be displayed.
   If you agree to this, click [YES], the window will then move to the next step. If you disagree, click [NO] and the install program will be canceled.



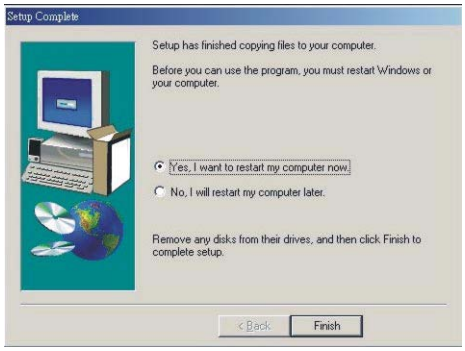
4. Select Destination Location.



5. Start Copying Files window will displayed.
   Click [Next>] to start installation.



6. Installation is completed.



NOTE:
If your system requires a manual installation: Click Run, type “(the CD-ROM drive):/install.exe”, then click OK.

Restarting your computer is recommended.

Using MGI PhotoSuite 4 SE

1. Click Start> Programs> MGI PhotoSuite 4> MGI PhotoSuite 4.
2. This will open the MGI PhotoSuite software to edit, crop and print your pictures.

Reference

Indicator Lamp Reference

Status	LED	ALWAYS ON	UNIT: 100ms		Video	Playback	Auto	Manual	USB
			ON	OFF					
Camera is ready	Green	○			○	○	○	○	
Error Message	Red	○			○	○	○	○	
Strobe Charge (not ready)	Orange		2	3			○	○	
Power On Status	Green		2	2	○	○	○	○	
Capture (including burst, AVI)	Green		2	3	○		○	○	
Playback Picture	Green		3	3		○			
F/W Update (Test Mode)	Self-timer		2	3					
Erase All (Test Mode)	Green		2	3					
Delete Single	Green		2	3		○			
Protect All	Green		2	3		○			
Slide Show (Read Image)	Green		3	3		○			
When AE is locked & strobe is ready, if strobe in Fill, Auto and Red-Eye Reduction mode.	Orange	○					○	○	
Self-time capture 10 sec.									
1~6 sec.	Self-timer		5	5					
7~8 sec.	Self-timer		2	2			○	○	
9~10 sec.	Self-timer		1	1			○	○	
Self-time capture 2 sec.	Self-timer		1	1					
Power Saving	Green		10	10					

Message	LED	UNIT: 100ms	
		ON	OFF
Door Open	Red	2	2
Battery Empty	Red	2	3
Busy (into thumbnail, delete all...)	Green	3	3
Formatting	Green	3	3
No Card	Red	2	3
Copy to Card			
Copying	Green	3	3
Copy Error	Red	2	3
Not Enough Memory in Card	Red	2	3
Protect (When do "delete single" to a protected file)	Red	2	3
Protect All (When do "delete all" to all protected file)	Red	2	3
No Image (delete single, delete all into, delete, protect, slide show, print order) when acting above actions, if no image desplayed, LED will light.	Red	2	3

Troubleshooting

Problem	Cause	Action
Power does not turn on.	- Batteries are loading in wrong dirction. - Batteries are dead. - The battery cover is open.	- Reload batteries in the correct direction. - Replace the new batteries. - Make sure the battery cover is closed security.
The camera does not shoot.	- The model dial is set to Playback mode. - The flash is charging. - Memory is full. - The SD card is nor formatted correctly.	- Turn the mode dial to Auto mode, Manual mode or Video mode. - Wait until the flash charges. - Insert a new SD card. - Delete images you no longer need. - Format the card correctly. - The card may be defective. Please change a new card.

Problem	Cause	Action
Image is not recorded when the shutter release button is pressed.	- The mode dial is set to Playback mode. - Flash is in charge. - Memory is full.	- Turn your mode dial to Auto mode or Manual mode. - Wait until the flash charging finishes - Delete images you no longer need.
Images are blurry or unfocused.	- The camera was moving when you took images. - The subject was out of the range over which the camera can focus.	- Hold the camera steady when shooting. - Be sure that there is at least 80cm between the camera lens and the subject. - Use the macro mode to shoot close-ups images at a distance of 20cm. - When shooting distance subjects, use the camera to Normal/Infinity focus mode.
Recorded images are not saved in memory	Camera power down before the save operation is complete.	If the low-battery indicator appears on the camera LCD screen, replace batteries with a full set of new ones.
Images are nor displayed.	A memory card with non-DCF images recorded with another camera is loaded in the camera.	This camera can not display non-DCF images.
The flash doesn't fire.	The flash mode is set to Off.	Set the flash to any other mode except Off.
Image not showing on TV.	- There is a problem with the camera-TV connection. - Incorrect video system setting.	- Please use the attached video cable to connect the camera to the TV correctly. - Set the video system to the appropriatedsetting, NTSC or PAL for your TV
Cannot transfer images after connecting to a computer with USB cable.	- USB driver is not installed. - Camera is turned off.	- Install the USB driver before you connect the camera to a PC. - Turn on the camera.

Specifications

Sensor	3.2 Mega CCD	
Lens	F 3.3, F8 (equivalent to about 48mm for 35mm film)	
Built-In Viewfinder	Optical Viewfinder	
Focus	Fixed Focus and macro function	
Focus Range	Normal (80cm~Infinity), Macro (20cm)	
Sensitivity	70	
LCD Display	1.5” TFT panel with LED back light	
Still Image Resolution	Large:	2272x1704
	Medium 1:	2048x1536
	Medium 2:	1600x1200
	Small:	640x480
Video Resolution	320x240	
Still Image Quality	Fine:	5X compression rate
	Normal:	8X compression rate
	Economy:	12X compression rate
Exposure Meter	Multi-pattern TTL AE	
Exposure Control	Auto	
	Auto Exposure Range: -2EV to +2EV in 1/3 steps	
Shutter Control	Mechanical Shutter	
	Shutter Speed: 1/3 ~ 1/1000sec.	
Digital Zoom	Preview Mode: ~X3 continuous 0.2X/step	
	Playback Mode: ~X4 continuous, 0.2X/step	
Digital Zoom (Video mode)	N/A	
Image File Format	Still & Burst: EXIF 2.2 compatible format (JPEG compression)	
	DCF compatible. Support DPOF, PIM	
Still Capture Mode	Single Mode, Burst Mode: 3 pictures per shot	
White Balance	Auto/Manual (5 modes in manual selection: day light/ shade/ tungsten/fluorescent/black & white)	
Picture Storage	16MB embedded Nandgate Flash Memory	
	External: SD memory card/ MMC	
Microphone	Built-In	
Sound Feedback	Speaker	
Communication Interface	USB 1.1	
Self-Timer	2 steps, 2/10 sec.	
Playback Mode	Single/ 9 Thumbnail pictures	
Video & Audio Out	Yes, NTSC/PAL	
Power Supply	AAx2 (1.5V Alkaline, or 1.2V, NiCd and Ni-MH	

	rechargeable), CRV3
	DC Input: +3.3V DC adapter
Dimension	Camera body: 97x65x37(33) mm
Weight	Camera body without battery: 165g

*** Specifications are subject to change without prior notice.**